OF DRIMEP TO	2.			ATTY. DOCKET NO. TH-1599 04 (US)					
TINH 3 0 SOUTHS	ا STOF ا	NFORMATION PROV BY APPLICANT	IDED	APPLICANT Bass et al	_ <u></u>	**************************************			
	everal	sheets if necessary)	•	FILING DATE 10/20/03	GROUP ART UNIT 3672				
REFEREN	SE DE	SIGNATION	· · · · · · · · · · · · · · · · · · ·	ATTENT DOCUMENTS					
Examiner	<u> </u>	AND THE STATE OF T		<u> </u>			Filing Date if		
Initial		Document No.	Date	Patentee	Class	Subclass	Appropriate		
DP5	AA	5,031,697	7/16/91	Wellington et al.	166	250			
)	AB	6,089,322	7/18/00	Kelley et al.	.166	370			
	AC	6,429,784 B1	8/6/02 ,	Beique et al.	340	853.2			
	AD	6,633,164 B2	10/14/03	Vinegar et al.	324	355			
	AE	6,662,875 B2	12/16/03	Bass et al.	166	369			
	AF	6,420,976 B1	7/16/02	Baggs et al.	340	853.3			
	AK	5,942,990	8/24/99	Smith et al.	340	853.7			
	AJ	6,747,569 B2	6/8/04	Hill et al.	340	855.8			
	AK	6,445,307 B1	9/3/02	Rassi et al.	340	854.6			
	AL	6,348,876 B1	2/19/02	Wei et al.	340	854.9			
	AM	2,083,321	6/8/37	Dunn et al.	106	34			
	AN	5,576,703	11/19/96	MacLeod et al.	340	854.4			
	AO	5,493,288	2/20/96	Henneuse	340	854.4	·		
	AP								
i,	1		FOREIG	N'PATENT DOCUMENTS		Later France Co.			
·		Document No.	Date	Country	Class	Subclass	Translation Yes No		
PP5	AQ	99/37044	22/7/99	wo	НО4В	13/02	X		
DPS	AR	0 964,134 B1	27/08/03	Ер	E21B	47/12	X		
	1	OTHER DOCUMENTS	S (INCLUDING	AUTHOR, TITLE, DATE,	PERTINEN	T PAGES, ET			
DPS.	AU	Otis Engineering, Fie Heavy Crude Lift Sys	•	nt, Now Produce Crude wit	h Viscosity r	no Higher Thar	This Using Otis		
EXAMINER	1	I Soft		DATE CONSIDERED	1/21/05				
EXAMINER:	Initia	I if citation consider	ed, whether o	or not citation is in conf		ith MPEP § 6	09. Draw line through		

citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

1. The attached cited information should not be construed as an admission that any of the above items are prior art to

the subject invention.

FORM PT	O-1449	(Modified)		TH-1599 04 (US) APPLICATION NUMBER 10/689,470					
LI	ST OF I	NFORMATION PROV BY APPLICANT	IDED	APPLICANT Bass et al	<u> </u>				
(Use	several	sheets if necessary)		FILING DATE 10/20/03	10/20/03 3672				
REFEREN	CE DE	SIGNATION	TY U.S. F	ATENTIDOCUMENTS			<b>经验的证明</b>		
Examiner Initial		Document No.	Date	Patentee	Class	Subclass	Filing Date if Appropriate		
PPS	BA	2003/0056952 A1	3/27/03	Stegemeier et al.	166	250.12			
	BB	2003/0086652 A1	5/8/03	Boudreau et al.	385	49			
	BC	5,467,083	11/14/95	McDonald et al.	340	854.6			
	BD	4,852,648	8/1/89	Akkerman et al.	166	66.4			
	BE	6,633,236 B2	10/14/03	Vinegar et al.	340	854.4			
	BF	2003/0131991 A1	7/17/03	Hartog et al.	166	250.12			
	BK	6,349,766 B1	2/26/02	Bussear et al.	166	113			
	BL	4,793,414	12/27/88	Nguyen et al.	166	252	, .		
	ВМ	4,771,635	9/20/88	Trevillion	73	155			
	BN	5,396,232	3/7/95	Mathieu et al.	340	854.5			
	ВО	6,588,505 B2	7/8/03	Beck et al.	166	250.17			
	BP	2002/0017387 A1	2/14/02	Ringgenberg et al.	166	250.17			
	BQ	2001/0002621 A1	6/7/01	Vaynshteyn et al.	166	387			
	BR	5,291,947	3/8/94	Stracke	166	187			
	<del></del>		FOREIG	N PATENT DOCUMENTS	A 12.	- 学品等多意思的			
		Document No.	Date	Country	Class	Subclass	<u>Translation</u> Yes No		
	ВТ								
	BV			<del> </del>					
	· (	OTHER DOCUMENTS	S (INCEUDING	AUTHOR, TITLE, DATE,	PERTINEN	T PAGES, ET	S:) 445+4-4-1		
	ВХ		,						
EV. 4 1 41 1 1 51		WAA	9/	DATE CONSIDERED_	, ,	<del></del>			
EXAMINE		XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	C	DATE CONSIDERED	121/05	•			
EXAMINE	R: Initi	al if citation consider	ered, whether	or not citation is in con	formance	with MPEP §	609. Draw line thro		

ah: citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

1. The attached cited information should not be construed as an admission that any of the above items are prior art to

the subject invention.

FUNIVIFIU	- 1449	(Modified)		TH-1599 04 (US)			
LIS	T OF I	NFORMATION PROVI BY APPLICANT	DED	APPLICANT Bass et al	, • <del> </del> • • • • • • • • • • • • • • • • • • •		
(Use s	everal	sheets if necessary)		FILING DATE 10/20/03	<b>GROUP</b> 3672	ART UNIT	
REFERENC	E DES	SIGNATION'	U.S. P	ATENT DOCUMENTS	" atatar		
Examiner Initial		Document No.	Date	Patentee	Class	Subclass	Filing Date if Appropriate
DP5	CA	2003/0047317	3/13/03	Powers	166	373	
1	СВ	6,352,109 B1	3/5/02	Buckman, Sr.	166	250.03	
	CC	6,443,228 B1	9/3/02	Aronstam et al.	166	250.11	
	CD	4,350,205	9/21/82	Goldschild et al.	166	375	
	CE	6,464,004 B1	10/15/02	Crawford et al.	166	250.01	
	CF	3,465,273	9/2/69	Brock	336	62	
	CG	6,443,228 B1	9/3/02	Aronstam et al.	166	250.11	
···	СН	4,087,781	5/2/78	Grossi et al.	340	18	
	CI	5,995,020	11/30/99	Owens et al.	340	854.9	
	ငၪ	5,887,657	3/30/99	Bussear et al.	166	336	
	СК	4,648,471	3/10/87	Bordon	175	4.55	
	CL	4,839,644	6/13/89	Safinya et al.	340	854	
	C M	5,130,706	7/14/92	Van Steenwyk	340	854.6	
	CN	5,467,083	11/14/95	McDonald et al.	340	854.6	
	СО	5,574,374	11/12/96	Thompson et al.	324	338	
			FOREIGI	N PATENT DOCUMENTS			
· •		Document No.	Date	Country	Class	Subclass	Translation Yes No
	CR						
	( );; · (	OTHER DOCUMENTS	(INCLUDING	AUTHOR, TITLE, DATE,	PERTINEN	T PAGES, ET	<b>9.</b>
·	CU				·		
EXAMINER		A AM		DATE CONSIDERED	//		
A	/Ya	w/ the				,	
EXAMINER	: Initi	ial if citation conside	red, whether	or not citation is In cor	formance	with MPEP §	609. Draw line through

gh citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

1. The attached cited information should not be construed as an admission that any of the above items are prior art to

the subject Invention.

FORM PTO	-1449 (	Modified)		ATTY. DOCKET NO. TH-1599 04 (US)	1	APPLICATION NUMBER 10/689,470			
LIS	ST OF II	NFORMATION PROVI BY APPLICANT	DED	APPLICANT Bass et al			•		
(Use s	everal s	sheets if necessary)		FILING DATE 10/20/03	GROUP ART UNIT 3672				
REFERENC	E DES	IGNATION	U.S. PA	TENT DOCUMENTS					
Examiner Initial	Cont	Document No.	Date	Patentee	Class	Subclass	Filing Date if Appropriate		
DP5	AA	3,793,632	2/19/74	Still	340	18			
1	AB	4,087,781	5/2/78	Grossi et al.	340	18			
	AC	4,630,243	12/16/86	MacLeod	367	82			
	AD	4,739,325	4/19/88	MacLeod	340	854			
	AE	5,191,326	3/2/93	Montgomery	340	855.5			
	AF	5,331,318	7/19/94	Montgomery	340	855.4			
	AG								
	АН								
	Al								
	<u> </u>	4	FOREIGN	PATENT DOCUMENTS					
is to		Document No.	Date	Country	Class	Subclass	Translation Yes No		
<del></del>	AL					· · · · · · · · · · · · · · · · · · ·			
	AM								
	AN						· ·		
	AO								
	0	THER DOCUMENTS	(INCLUDING A	UTHOR, TITLE, DATE, P	ERTINENT P	PAGES, ETC.)			
WS	AR			est Texas Oil Lifting Short uipment Considerations," S			Misunderstood or		
MS	AT			Neural-Net Identification of Eva. & Eng.2 (6) Decembe			ectra of Flow-		
EXAMINER	1	and Pk		DATE CONSIDERED	7/21/05	-			
EXAMINER	Initial	if citation considere	d, whether or	not citation is in confor		MPEP § 609.			

- citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

  1. The attached cited information should not be construed as an admission that any of the above items are prior art to the subject invention.
- This is not a representation that a search has been made. 2.

FORM PTO	-1449 (	Modified)		ATTY. DOCKET NO. TH-1599 04 (US)	TH-1599 04 (US) 10/689,470					
LIS	ST OF II	NFORMATION PROVID BY APPLICANT	DED	APPLICANT Bass et al	<u></u>					
•	•	sheets if necessary)		FILING DATE 10/20/03	3672	ART UNIT				
REFERENC	EDES	IGNATION	······································	ATENT DOCUMENTS				2. 集级计算		
Examiner Initial		Document No.	Date	Patentee	Class	Subclass	Filing	Date if priate		
	AA									
	AB									
	AC									
	AD									
	AE		·					***		
	AF									
	AG						<del>                                     </del>	· · · · · · · · · · · · · · · · · · ·		
	AH							And the second s		
	Al						· ·			
	<u> </u>	9 G-1 - W 1-	FOREIGN	  PATENT:DOCUMENTS	· · · · · · · · · · · · · · · · · · ·					
		Document No.	Date	Country	Class	Subclass		slation No		
12P5	AM	2,677,134	4/12/92	FR	G01B	1/22	X			
	AN									
	AO									
	0	THER DOCUMENTS (	INCLUDING.	AUTHOR, TITLE, DATE, P	ERTINENT	PAGES; ETC.)	1. 新安安	· 横壁 東 下。		
	AR									
	· —				<u></u>					
	AT									
EXAMINER		and I til		DATE CONSIDERED	/21/05					
EXAMINER:	Initiat	1/2//	. whether or	not citation is in confo	rmance with	MPEP § 609	Draw li	ne through		

citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

1. The attached cited information should not be construed as an admission that any of the above items are prior art to

<sup>1.</sup> The attached cited information should not be construed as an admission that any of the above items are prior art to the subject invention.

FORM PTO	-1449 (N	Modified)		ATTY. DOCKET NO. TH-1599 04 (US)	APPLICA 10/689,47	TION NUMB			
LIS	T OF IN	FORMATION PROVII BY APPLICANT	DED	APPLICANT Bass et al					
(Use so	everal s	heets if necessary)		FILING DATE 10/20/03	GROUP ART UNIT 3672				
REFERENC	E DESI	GNATION	U.S.P.	ATENT DOCUMENTS					
Examiner Initial		Document No.	Date	Patentee	Class	Subclass	Filing Appro	Date If priate	
DPS	AA	525,663	9/4/1894	Mottinger, N. W.					
1	AB	2,917,004	12/15/59	Davis et al.					
	AC	3,083,771	4/2/63	Chapman, J.B.			-		
	AD	3,247,904	4/26/66	Wakefield, Jr.					
	AE	3,427,989	2/18/69	Bostock et al.					
	AF	3,566,963	3/2/71	Blackledge	166	189	,		
	AG	3,602,305	8/31/71	Kisling, III	116	134			
	АН	3,732,728	5/15/73	Fitzpatrick	73	151			
	Al	3,814,545	6/4/74	Waters	417	90			
	AJ	3,837,618	9/24/74	Juhel	251	129			
	AK	3,980,826	9/14/76	Widmer	178	68		-	
1			FOREIGN	PATENT DOCUMENTS		300000 4 100000			
		Document No.	Date	Country	Class	Subclass	Trans Yes	lation No	
DPS	AL	028,296 A2 + Abst.	5/13/81	EP	E21B 47	12		X	
\	AM	295,178	12/14/88	EP .	E21B 47	12	X		
	AN	339,825	11/2/89	EP	E21B 47	12	X		
	AO	492,856 A2	7/1/92	EP	H04B1	62	X		
	AP	681,090 A2	11/8/95	EP	E21B 47	18	×		
	0	THER DOCUMENTS	(INCLUDING	AUTHOR, TITLE, DATE,	PERTINENT	PAGES, ET	<b>c</b> .)		
	AR							•	
EXAMINER		Iff		DATE CONSIDERED	7/4/05			· · · · · · · · · · · · · · · · · · ·	
	WN	w///				MDED 6 600	D 11		

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

1. The attached cited information should not be construed as an admission that any of the above items are prior art

to the subject invention.

This is not a representation that a search has been made. 2.

ATTY. DOCKET NO. **APPLICATION NUMBER** FORM PTO-1449 (Modified) 10/689,470 TH-1599 04 (US) LIST OF INFORMATION PROVIDED **APPLICANT** BY APPLICANT Bass et al **GROUP ART UNIT FILING DATE** (Use several sheets if necessary) 10/20/03 3672 REFERENCE DESIGNATION U.S. PATENT DOCUMENTS Filing Date if Examiner **Appropriate** Subclass Class Document No. Date **Patentee** Initial 272 1/17/78 166 Needham AA 4,068,717 DP5 417 111 10/20/81 Gass et al. AB 4,295,795 367 25 7/12/83 Redden AC 4,393,485 Dowling et al. 166 248 3/18/86 AD 4,576,231 340 855 MacLeod 3/25/86 4,578,675 AE Scott et al. 417 58 6/24/86 AF 4,596,516 166 65.1 5/5/87 Renfro AG 4,662,437 166 304 7/21/87 Stacks AH 4,681,164 340 856 Forehand et al. 11/24/87 ΑI 4,709,234 166 372 McKee 4/19/88 AJ 4,738,313 166 65.1 Perkins et al. 12/12/89 AK 4,886,114 FOREIGN PATENT DOCUMENTS १० तम्ब्रीतः स्थानस्य स्थानस् **Translation** Yes No Subclass Class Country Date Document No. X **E21B** 12 EP 7/10/96 AL 721,053 A1 47 X E21B 47 12 EP 6/2/99 **AM** 919,696 A2 X 12 EP G01V3 7/21/99 AN 930,518 A2 X 00 EP E21B 1/19/00 AO 972,909 A2 44 124 X E21B EP 3/8/95 AP 641,916 A2 33 OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.) AR DATE CONSIDERED **EXAMINER** 

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered, include copy of this form with next communication to the applicant.

1. The attached cited information should not be construed as an admission that any of the above items are prior art to the subject invention.

FORM PTO	ORM PTO-1449 (Modified)  LIST OF INFORMATION PROVIDED			ATTY. DOCKET NO. TH-1599 04 (US)	APPLICATION NUMBER 10/689,470				
LIS	ST OF IN	IFORMATION PROVIDED BY APPLICANT	DED	APPLICANT Bass et al	<u> </u>				
(Use s	several s	sheets if necessary)		FILING DATE 10/20/03	<b>GROUP</b> 3672	ART UNIT			
REFEREN	CE DES	GNATION	U.S. P	ATENT DOCUMENTS	September of a	#14.1		र्वाटाम्बर्ड स्थान्त्र	
Examiner Initial		Document No.	Date	Patentee	Class	Subclass	Filing D		
OP5	AA	4,901,069	2/13/90	Veneruso	340	853			
1	AB	4,972,704	.11/27/90	Wellington et al.	73	155			
	AC	4,981,173	1/1/91	Perkins et al.	166	66.4			
	AD	5,001,675	3/19/91	Woodward	367	13			
	AE	5,008,664	4/16/91	More et al.	340	854			
	AF	5,134,285	7/28/92	Perry et al.	250	269			
	AG	5,160,925	11/3/92	Dailey et al.	340	853.3			
	АН	5,162,740	11/10/92	Jewell	324	347			
	AI	5,172,717	12/22/92	Boyle et al.	137	155		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
	AJ	5,176,164	1/5/93	Boyle	137	155			
	AK	5,230,383	7/27/93	Pringle et al.	166	66.4			
	AL	5,246,860	9/21/93	Hutchins et al.	436	27			
-1-	AM	5,251,328	10/5/93	Shaw	455	73			
1	d object of		FOREIGI	PATENT DOCUMENTS			Table and the second of the se		
		Document No.	Date	Country	Class	Subclass	Transl Yes		
PPS	AP	697,500 A2	2/21/96	EP	E21B 49	00	×		
]	AQ	732,053 A1+ Abst.	9/18/96	EP	A21C9	04		X	
	AR	922,835 A3	6/16/99	EP	E21B 43	14	X		
<u> </u>	0	THER DOCUMENTS	INCLUDING	AUTHOR, TITLE, DATE,	PERTINEN	T-PAGES, ET	C.)		
<u> </u>	AU			•					
EXAMINER	R //n	mlffel		DATE CONSIDERED .	7/21/25				
EXAMINER:	Initial	If citation considered	, whether or	not citation is in confor	mance with	MPEP § 609	. Draw lin	ne through	

citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

1. The attached cited information should not be construed as an admission that any of the above items are prior art

1. The attached cited information should not be construed as an admission that any of the above items are prior and to the subject invention.

FORM PTC	)-1449 ([	Modified)		ATTY. DOCKET NO. TH-1599 04 (US)					
· LIS	ST OF IN	FORMATION PROVI	DED	APPLICANT Bass et al					
(Use s	everal s	heets If necessary)	•	FILING DATE 10/20/03					
REFEREN	SE DESI	GNATION	U.S. P	ATENT DOCUMENTS				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Examiner Initial		Document No.	Date	Patentee	Class	Subclass	Filing Date Appropriat		
DP5	AA	5,257,663	11/2/93	Pringle et al.	166	66.4			
1	AB	5,267,469	12/7/93	Espinoza	73	40.5			
	AC	5,278,758	1/11/94	Perry et al.	364	422			
	AD	5,353,627	10/11/94	Diatschenko et al	73	19.03		_·_·	
	AE	5,358,035	10/25/94	Grudzinski	166	53			
	AF	5,367,694	11/22/94	Ueno	395	800		-	
	AG	5,394,141	2/28/95	Soulier	340	854.4			
-	АН	5,425,425	6/20/95	Bankson et al.	166	377		·	
	AI	5,447,201	9/5/95	Mohn	166	375	ļ-·-···	•	
	AJ	5,458,200	10/17/95	Lagerlef et al.	166	372			
	AK	5,473,321	12/5/95	Goodman et al.	340	854.9			
	AL	5,531,270	7/2/96	Fletcher et al.	166	53		· · · · · · · · · · · · · · · · · · ·	
			FOREIGN	PATENT DOCUMENTS				10000000000000000000000000000000000000	
		Document No.	Date	Country	Class	Subclass	Translation Yes No	<u>n</u>	
DP5	AO	999,341 A2	5/10/00	EP	E21B 33	124	X		
DP5	AP	2,677,134	12/10/92	FR	E21B 47	12	X		
DP5	AQ	2,325,949 A	12/9/98	GB	E21B 43	12	X		
	01	THER DOCUMENTS	(INCLUDING /	AUTHOR, TITLE, DATE, F	PERTINENT	PAGES, ETC	<b>5.</b> )	-	
	AR				•				
		7 100							
EXAMINER	$\sim$	ml / St		DATE CONSIDERED	7/21/05			· 	
				not citation is in conform		_		_	

citation if not in conformance <u>and not considered. Include copy of this form with next communication to the applicant.</u>

1. The attached cited information should not be construed as an admission that any of the above items are prior art to the subject invention.

**APPLICATION NUMBER** ATTY, DOCKET NO. FORM PTO-1449 (Modified) 10/689,470 TH-1599 04 (US) LIST OF INFORMATION PROVIDED **APPLICANT** BY APPLICANT Bass et al **GROUP ART UNIT** FILING DATE (Use several sheets if necessary) 10/20/03 3672 REFERENCE DESIGNATION U.S. PATENT DOCUMENTS The second secon Filing Date if Examiner **Appropriate** Subclass Document No. **Date Patentee** Class Initial 73 152.02 10/1/96 Georgi et al. AA 5.561.245 870.09 Dickie et al. 340 12/24/96 AB 5,587,707 367 83 1/7/97 Rorden et al. AC 5,592,438 166 250.01 9/2/97 Tubel et al. AD 5,662,165 73 152.18 3/3/98 Pruett et al. AE 5,723,781 66 250.01 3/24/98 Tubel et al. AF 5,730,219 853.1 4/28/98 Van Gisbergen et al. 340 AG 5,745,047 137 155 7/21/98 Becker et al. AH 5.782,261 117.5 8/25/98 Hisaw 166 Αl 5,797,453 Boe et al. 166 100 3/16/99 AJ 5,881,807 166 53 4/27/99 Carmody et al. AK 5,896,924 166 53 Bussear et al. 8/10/99 AL 5.934.371 166 250.15 8/17/99 Bussear et al. AM 5,937,945 FOREIGN PATENT DOCUMENTS **Translation** Yes No **Subclass** Country Class Document No. Date GB 12 X E21B 12/15/99 AU DP5 2,338,253 A 47 12 X E21B AVGB 2,327,695 A 2/3/99 43 E21B 12 X **AW** WO 3/22/01 01/20126 A2 43 X 01 E21B AX 1/27/00 WO 00/04275 47 OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.) DATE CONSIDERED **EXAMINER** 

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

<sup>1.</sup> The attached cited information should not be construed as an admission that any of the above items are prior art to the subject invention.

<sup>2.</sup> This is not a representation that a search has been made.

FORM PTO-1449 (Modified)			ATTY. DOCKET NO. APPLICATION NUMBER 10/689,470				
OF INF	FORMATION PROVI BY APPLICANT	DED	APPLICANT Bass et al			·	
veral st	neets if necessary)		FILING DATE 10/20/03	GROUP ART UNIT 3672			
DESIG	SNATION	U.S. P	ATENT DOCUMENTS	THE HICKORY		September 3 comment	學問題
	Document No.	Date	Patentee	Class	Subclass	_	
AA	5,941,307	8/24/99	Tubel	166	313		
AB	5,955,666	9/21/99	Mullins	73	52.18		
AC	5,959,499	9/28/99	Khan et al.	330	149		<del>`</del>
AD	5,960,883	10/5/99	Tubel et al.	166	313	•	<del></del>
AE	5,963,090	10/5/99	Fukuchi	330	149		
AF	5,971,072	10/26/99	Huber et al.	166	297		
AG	5,975,204	11/2/99	Tubel et al.	166	250.15		
АН	6,012.015	1/4/00	Tubel	702	6		
Al	6,012,016	1/4/00	Bilden et al.	702	12		
AJ	6,070,608	6/6/00	Pringle	137	155	-	······································
AK	6,123,148	9/26/00	Oneal	166	118		
AL	6,148,915	11/21/00	Mullen et al.	166	278		<del></del>
AM	6,192,983 B1	2/27/01	Neuroth et al.	166	250.15		
AN	6,208,586 B1	3/27/01	Rorden et al.	367	35		
AO	6,484,800 B2	11/26/02	Carmody et al.	166	53		
		FOREIGN	PATENT DOCUMENTS			\$	•
	Document No.	Date	Country	Class	Subclass	Translation Yes No	1
AR	00/37770	6/29/00	wo	E21B 37	06	Х .	
AS	01/55555 A1	8/2/01	wo	E21B 47	12	X	-
ОТ	HER DOCUMENTS	(INCLUDING	AUTHOR, TITLE, DATE,	PERTINEN	T PAGES, ET	<b>C.</b> )	
AU							
In	w Plet		DATE CONSIDERED	121/05		- <del> </del>	<del></del>
	AA AB AC AB AH AI AJ AK AL AM AN AO AC	Document No.     AA	Document No.   Date	OF INFORMATION PROVIDED BY APPLICANT Bass et al           FILING DATE 10/20/03           DESIGNATION:         U.S. PATIENT/DOCUMENTS           Document No.         Date         Patentee           AA         5,941,307         8/24/99         Tubel           AB         5,955,666         9/21/99         Mullins           AC         5,959,499         9/28/99         Khan et al.           AD         5,960,883         10/5/99         Tubel et al.           AE         5,963,090         10/5/99         Fukuchi           AF         5,971,072         10/26/99         Huber et al.           AG         5,975,204         11/2/99         Tubel et al.           AH         6,012,016         1/4/00         Bilden et al.           AJ         6,070,608         6/6/00         Pringle           AK         6,123,148         9/26/00         Oneal           AL         6,148,915         11/21/00         Mullen et al.           AN         6,29,983 B1         2/27/01         Neuroth et al.           AO         6,484,800 B2         11/26/02         Carmody et al.           FOREIGN PATENT DOCUMENTS           Document No.         Date	OF INFORMATION PROVIDED BY APPLICANT         APPLICANT Bass et al           FILING DATE 10/20/03         GROUP 3672           DOCUMENT NO.         Date Patentee         Class           AA         5,941,307         8/24/99         Tubel         166           AB         5,955,666         9/21/99         Mullins         73           AC         5,959,499         9/28/99         Khan et al.         330           AD         5,950,883         10/5/99         Tubel et al.         166           AE         5,963,090         10/5/99         Fukuchi         330           AF         5,971,072         10/26/99         Huber et al.         166           AB         5,975,204         11/2/99         Tubel et al.         166           AH         6,012,015         1/4/00         Bilden et al.         702           AL         6,070,608         6/6/00         Pringle         137           AK         6,123,148         9/26/00         Oneal         166           AL         6,148,915         11/21/00         Mullen et al.         166           AM         6,29,93 B1         2/27/01         Rourden et al.         36	APPLICANT   Bass et al   FILING DATE   10/20/03   3672	APPLICANT   Bass et al

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

1. The attached cited information should not be construed as an admission that any of the above items are prior art

to the subject invention.

This is not a representation that a search has been made. 2.

FORM PTC	D-1449 (N	lodified)		ATTY. DOCKET NO. TH-1599 04 (US)					
LIS	ST OF IN	FORMATION PROVI BY APPLICANT	DED ,	APPLICANT Bass et al					
(Use s	several sl	neets if necessary)		FILING DATE 10/20/03	GROUP ART UNIT 3672				
REFEREN	GE DESIG	GNATION	U.S. P	ATENT DOCUMENTS	PARTY TO THE STATE OF	AND THE PROPERTY OF		1000 1000 年度	
Examiner Initial		Document No.	Date	Patentee	Class	Subclass	Filing Dat Appropria		
DP5	AA	5,396,232	3/7/95	Mathieu et al.	340	854.5			
OP5	AB	6,334,486	1/1/02	Carmody et al.	166	53		<del></del>	
	AC							·	
<del> </del>	AD								
	AE								
	AF			· .					
	AG								
	AH							<del></del>	
	Al								
	AJ	· · · · · · · · · · · · · · · · · · ·						<u> </u>	
	AK								
* ; ;	2		FOREIGN	N PATENT DOCUMENTS					
		Document No.	Date	Country	Class	Subclass	Translation Yes No.		
DP5	AL	80/00727	4/17/80	Wo	E21B 47	12	X		
	AM	93/26115	12/23/93	WO	H04N 1	40	X		
	AN	96/00836	1/11/96	wo	E21B 47	12	X		
	AO	96/24747	8/15/96	wo	E21B 43	12	X		
<u> </u>	01	HER DOCUMENTS	(INCLUDING	AUTHOR, TITLE, DATE,	PERTINENT	PAGES, ET	2:)		
	AR					-			
		<u> </u>			<del></del>		·	<del></del>	
	AT		,						
EXAMINER		MASS	E	DATE CONSIDERED	7/21/05				
EXAMINER:	Initial if	citation considered	d, whether or	not citation is in confor	mance with	MPEP § 609	. Draw line	through	

- citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

  1. The attached cited information should not be construed as an admission that any of the above items are prior art to the subject invention.

  2. This is not a representation that a search has been made.

FORM PT	FORM PTO-1449 (Modified)			ATTY. DOCKET NO. TH-1599 04 (US)	APPLICA 10/689,47	ATION NUMB 70	ER			
LI	IST OF INI	FORMATION PROV BY APPLICANT	IDED	APPLICANT Bass et al	<b>!</b>					
•		heets if necessary)		FILING DATE 10/20/03	3672					
REFEREN	VGE DESI	GNATION	U.S. P	ATENT DOCUMENTS		an ferfitting of the	Filing Date if Appropriate			
Examiner Initial		Document No.	Date	Patentee	Class	Subclass				
	AA									
	AB						,			
	AC									
	AD									
<del></del>	AE							· · · · · · · · · · · · · · · · · · ·		
	AG							· · · · · · · · · · · · · · · · · · ·		
	AK									
			FOREIGN	PATENT DOCUMENTS		Aver or a second				
		Document No.	Date	Country	Class	Subclass	Transiat Yes 1	tion No		
DAS	AO	97/16751	5/9/97	wo	GO1V3	00	Х			
	AP	97/37103	10/9/97	wo	E21B 47	01	X			
	AQ	98/20233	5/14/98	wo	E21B 43	40	Х			
	AR	99/57417	11/11/99	wo	E21B 41	00	X			
	AS	99/60247	11/25/99	WO	E21B 43	12	X			
	·AT									
	OT	HER DOCUMENTS	 (INCLUDING	AUTHOR, TITLE, DATE,	  PERTINENT	 PAGES, ET(	<u> </u> 			
	AU							·**·		
<u>.</u>	AW.	<u> </u>								
EXAMINE		MAK		DATE CONSIDERED	7/21/05			· · · · · · · · · · · · · · · · · · ·		
EXAMINER				not citation is in confor		MPEP § 609	. Draw line	through		

citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

1. The attached cited information should not be construed as an admission that any of the above items are prior art

to the subject invention.